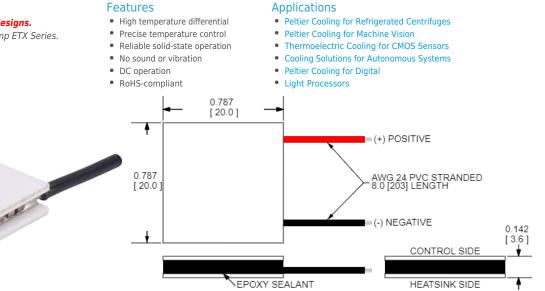


ZT Series Thermoelectric Cooler

Note: This product is not recommended for new designs. This product series has been replaced with the HiTemp ETX Series. The recommended replacement is: Description: ETX4-7-F1-2020-TB-EP-W8

CONCERSION OF THE

Features



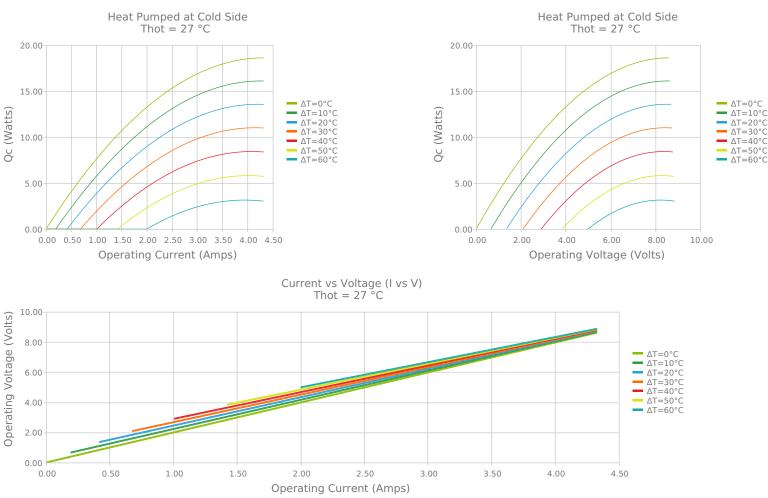
CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BISn

INCHES [MM]

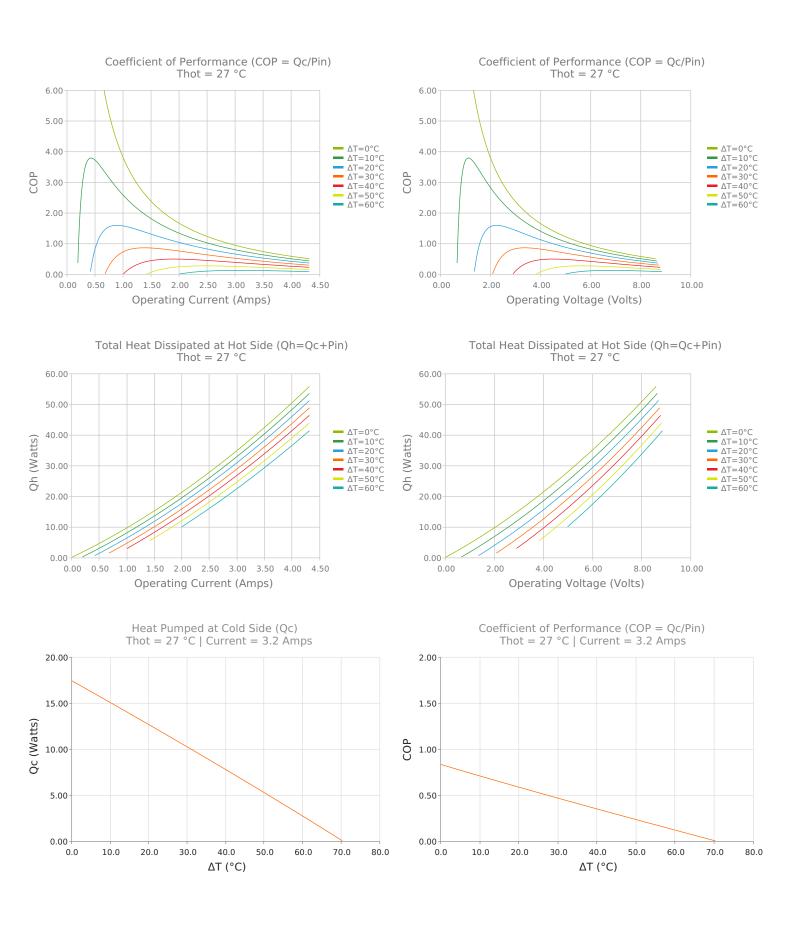
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

ELECTRICAL AND THERMAL PERFORMANCE

For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.







SPECIFICATIONS*

| Hot Side Temperature | 27.0 °C | 35.0 °C | 50.0 °C |
|---------------------------|-------------|------------|------------|
| $Qcmax (\Delta T = 0)$ | 18.6 Watts | 19.1 Watts | 20.0 Watts |
| ΔTmax (Qc = 0) | 71.7°C | 74.8°C | 80.4°C |
| lmax (I @ ΔTmax) | 3.9 Amps | 3.8 Amps | 3.8 Amps |
| Vmax (V @ ΔTmax) | 8.1 Volts | 8.5 Volts | 9.0 Volts |
| Module Resistance | 1.99 Ohms | 2.08 Ohms | 2.24 Ohms |
| Max Operating Temperature | 80 °C | | |
| Weight | 7.0 gram(s) | | |

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

| Suffix | Thickness | Flatness / Parallelism | Hot Face | Cold Face | Lead Length |
|--------|--------------------------------------|--|----------|-----------|---------------------|
| ТВ | 3.610 ±0.013 mm 0.142 ± 0.0005 in | 0.013 mm / 0.013 mm 0.0005 in / 0.0005 in | Lapped | Lapped | 203.2 mm 8.00 in |

SEALING OPTIONS

| Suffix | Sealant | Color | Temp Range | Description |
|--------|---------|-------|--------------|--|
| EP | Ероху | Black | -55 to 150°C | Low density syntactic foam epoxy encapsulant |

NOTES

- 1. Max operating temperature: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

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